EMERGENCY RESPONSE REPORT

FOR

PASADENA REFINING SYSTEM, INC. FIRE (aka PRSI FIRE)
111 RED BLUFF ROAD
PASADENA, HARRIS COUNTY, TEXAS

Prepared for

U.S. Environmental Protection Agency Region 6
Will LaBombard, Project Officer
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Contract No. EP-W-06-042
Technical Direction Document No. 1/WESTON-042-16-017
WESTON Work Order No. 20406.012.001.0993.01
NRC No. 1142043
CERCLIS No. N/A
FPN N/A
EPA OSC: Jhana Enders
EPA Team PTL: Patrick Bond

Prepared by

Weston Solutions, Inc.
Cecilia Shappee, P.E., Program Manager
5599 San Felipe, Suite 700
Houston, Texas 77056
(713) 985-6600

19 April 2016

PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) response actions for the Pasadena Refining System, Inc. (PRSI) Fire response. The site is a petroleum refining facility located at 111 Red Bluff Road in Pasadena, Harris County, Texas. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files.

On 05 March 2016 at approximately 1358 hours, the National Response Center (NRC) received an initial report (NRC Report No. 1142043) of an explosion resulting in the closure of the Houston Ship Channel. Additional information reported to EPA indicated the incident occurred in a hydrogen desulfurization system (HDS) with potential release of sulfur dioxide. The NRC notified the EPA Region 6 Prevention and Response Branch (PRB), and the EPA-PRB on-duty phone officer mobilized an On-Scene Coordinator (OSC) and the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor. The EPA Team was mobilized under the National Contingency Plan, which gives EPA the authority to respond to a release (or threat of) of hazardous substances, pollutants, or contaminants. The EPA Team was tasked to respond to the incident to assess site conditions, provide written and photographic documentation of the activities, conduct perimeter air monitoring for potential chemicals of concern, and provide technical assistance as needed. A subsequent NRC report (NRC Report No. 1142059) was received at 1809 hours indicating a leak in a line, causing the line to catch fire and discharge diesel that burned to the atmosphere. During air monitoring, no detections above Acute Exposure Guideline Levels (AEGLs) were recorded at the 14 monitoring locations (Attachments C and D) for oxygen (O2), lower explosive limit (LEL), carbon monoxide (CO), hydrogen sulfide (H2S), volatile organic compounds (VOCs), and sulfur dioxide (SO2). At approximately 1903 hours on 05 March 2016, the fire was extinguished, and after concluding air monitoring activities, the EPA Team demobilized from the site at 2200 hours.

This report was prepared to describe the technical scope of work that was completed as part of Technical Direction Document (TDD) No. 1/WESTON-042-16-017. EPA OSC Jhana Enders provided direction for the response, and the START-3 Project Team Leader (PTL) was Patrick Bond.

☐ The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

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1. INTRODUCTION

On 05 March 2016 at approximately 1358 hours, the National Response Center (NRC) received an initial report (NRC Report No. 1142043) of an explosion resulting in the closure of the Houston Ship Channel. Additional information reported to EPA indicated the incident occurred in a hydrogen desulfurization system (HDS) with potential release of sulfur dioxide. The NRC notified the EPA Region 6 Prevention and Response Branch (PRB), and the EPA-PRB on-duty phone officer mobilized an On-Scene Coordinator (OSC) and the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor. The EPA Team was mobilized under the National Contingency Plan, which gives EPA the authority to respond to a release (or threat of) of hazardous substances, pollutants, or contaminants. The EPA Team was tasked to respond to the incident to assess site conditions, provide written and photographic documentation of the activities, conduct perimeter air monitoring for potential chemicals of concern, and provide technical assistance as needed. A subsequent NRC report (NRC Report No. 1142059) was received at 1809 hours indicating a leak in a line, causing the line to catch fire and discharge diesel that burned to the atmosphere. During air monitoring, no detections above Acute Exposure Guideline Levels (AEGLs) were recorded at the 14 monitoring locations (Attachments C and D) for oxygen (O2), lower explosive limit (LEL), carbon monoxide (CO), hydrogen sulfide (H2S), volatile organic compounds (VOCs), and sulfur dioxide (SO2).

Geographic coordinates of the PRSI Explosion were obtained using a Global Positioning System (GPS). The incident site is located at 111 Red Bluff Road (Latitude 29.719000° North and Longitude 95.210531°West). A Site Location Map, a Site Area Map, and an Air Monitoring Locations Map are included as Attachments A, B, and C, respectively.

2. BACKGROUND

On 05 March 2016 at 1025 hours, a PRSI employee was reportedly switching from one hydrogen source to another in the HDS unit when he reported an ignition and percussion wave damaging nearby pipelines containing diesel fuel. The hydrogen and diesel ignited, resulting in an explosion and fire with the release of SO2 and diesel that burned to the atmosphere. The employee was transported to the hospital with first and second degree burns and was released that evening following medical treatment. As a result of the release, PRSI environmental staff

began mobile air monitoring operations within the plant and throughout the surrounding communities.

At 1050 hours, Channel Industries Mutual Aid (CIMA) arrived on-site with multiple firefighting units. Authorities shut down the nearby Washburn Tunnel and Red Bluff Road to accommodate the staging of additional fire suppression equipment on-scene. The United States Coast Guard (USCG) briefly closed the Houston Ship Channel due to concerns of the drifting smoke plume. At 1058 hours, an "e-notify" incident notification was sent out with time, date, type, weather, etc. to agencies, nearby industries, and the community. In response to the fire, the National Response Center (NRC) and Texas Commission on Environmental Quality (TCEQ) were informed of the incident (NRC Report No. 1142043). PRSI relayed to the EPA Team during the response that their initial estimates were that the fire resulted in an SO2 Reportable Quantity of 800 pounds. The final TCEQ STEERs report submitted by PRSI (Attachment H) confirmed that a calculated amount of 293.2 pounds of SO2 were released from the facility during the event.

A Unified Command was established to assist in providing information, resources, and response decisions. Unified Command included PRSI management and operations staff and personnel from City of Pasadena, City of Houston Fire Department, Harris County Emergency Management/Pollution Control/Arson Investigation, Houston Emergency Management, Harris County Hazmat, USCG, TCEQ, and CIMA. Harris County Pollution Control joined PRSI environmental staff for air monitoring operations that were conducted on-site and downwind in adjacent areas around the facility. No detections were recorded during air monitoring efforts and the Unified Command decided that no community evacuations or shelter-in-place orders were required.

Authorities reopened the Washburn Tunnel at 1203 hours 05 March 2016 for vehicles and, at 1245 hours, the Houston Ship Channel was reopened for marine traffic. By 1255 hours the fire was contained within the immediate vicinity of the HDS unit, and City of Pasadena personnel and CIMA response support resources had demobilized from the scene by 1345 hours. The fire was completely extinguished at 1903 hours 05 March 2016 and, upon agreement among members of Unified Command, the "all clear" alert was given at 1921 hours.

3. ACTIONS TAKEN

The EPA Team arrived on-scene 05 March 2016 at 1546 hours and began photograph documentation of the incident with direction from Jhana Enders, the EPA OSC. Upon arrival at the scene, an incident briefing was received from the Unified Commander Mark Berlinger, PRSI Environmental Health Safety Director. A meeting was held with members of the PRSI on-site Unified Command staff to obtain an accurate timeline of events and information regarding the current situation.

Following the initial incident briefing, the EPA Team began conducting air monitoring at 1650 hours. Measurements were collected at 14 locations in the surrounding industrial and residential areas. Readings for O2, LEL, CO, H2S, VOCs, and SO2 were recorded with no detections above AEGLs. A map of air monitoring locations and a table of recorded monitoring data are included as Attachment C and Attachment D, respectively.

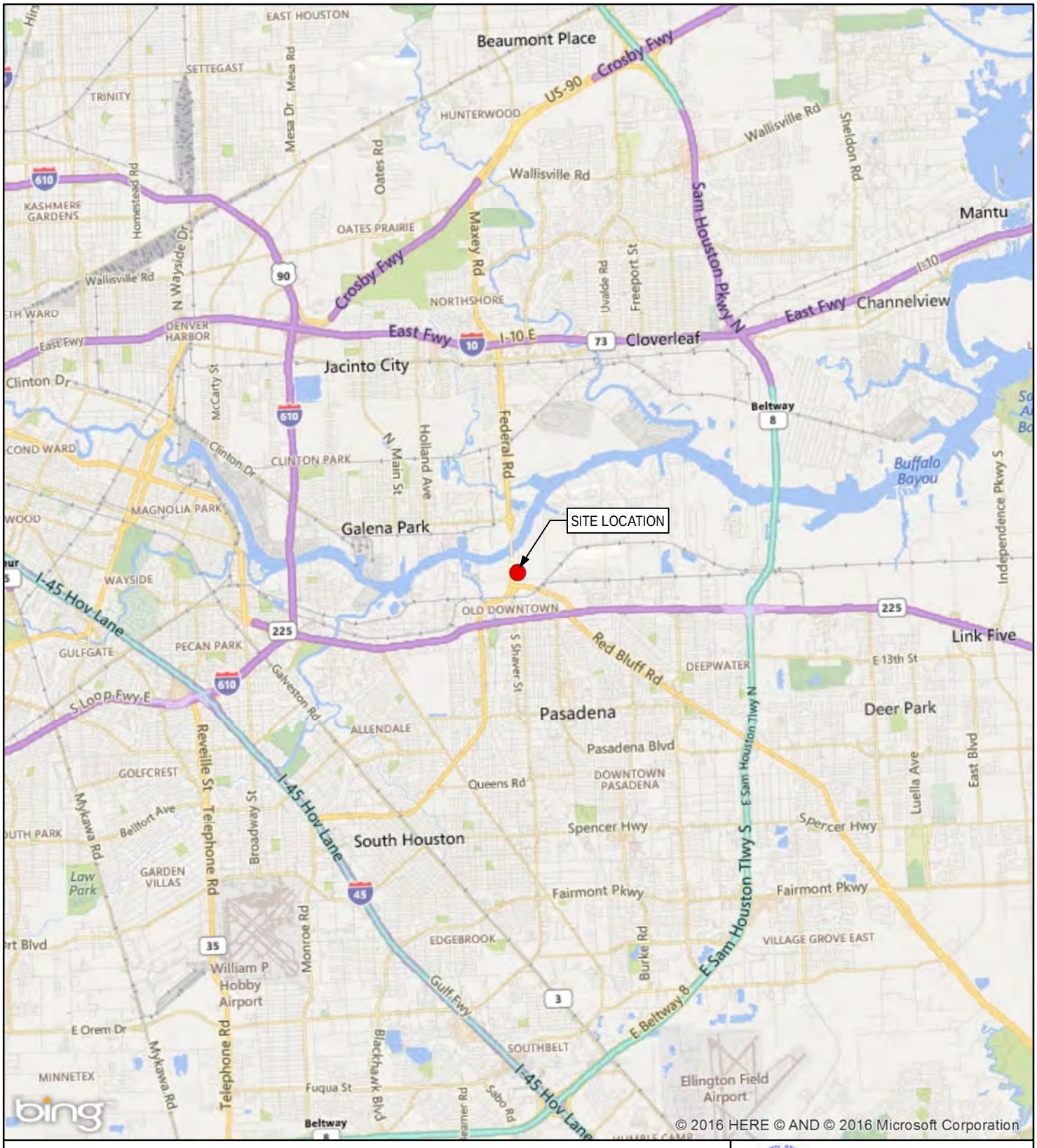
The EPA Team received a final on-site briefing at 2000 hours to review the timeline of events and expected actions moving forward. EPA will continue to monitor the release of diesel and follow up with TCEQ. PRSI representatives will remain in contact with TCEQ, who will continue oversight during the damage assessment and restoration. Stand-down of Unified Command occurred at 2143 hours, and the EPA Team demobilized at 2200 hours.

4. LIST OF ATTACHMENTS

A. Site Location Map
B. Site Area Map
C. Air Monitoring Locations Map
D. Air Monitoring Results
E. Digital Photographs
F. Site Logbook
G. NRC Report No. 1142043
H. Final TCEQ STEERs Report
I. Pollution Report (POLREP)
J. TDD No. 1/WESTON-042-16-017

ATTACHMENT A

SITE LOCATION MAP



0 2 4

Miles

LEGEND

Site Location

N

US EPA REGION 6

ATTACHMENT A
SITE LOCATION MAP
PASADENA REFINING SYSTEMS FIRE
111 RED BLUFF RD
PASADENA, HARRIS COUNTY, TEXAS

DATE	PROJECT NO	SCALE
APR 2016	20406.012.001.0993.01	AS SHOWN

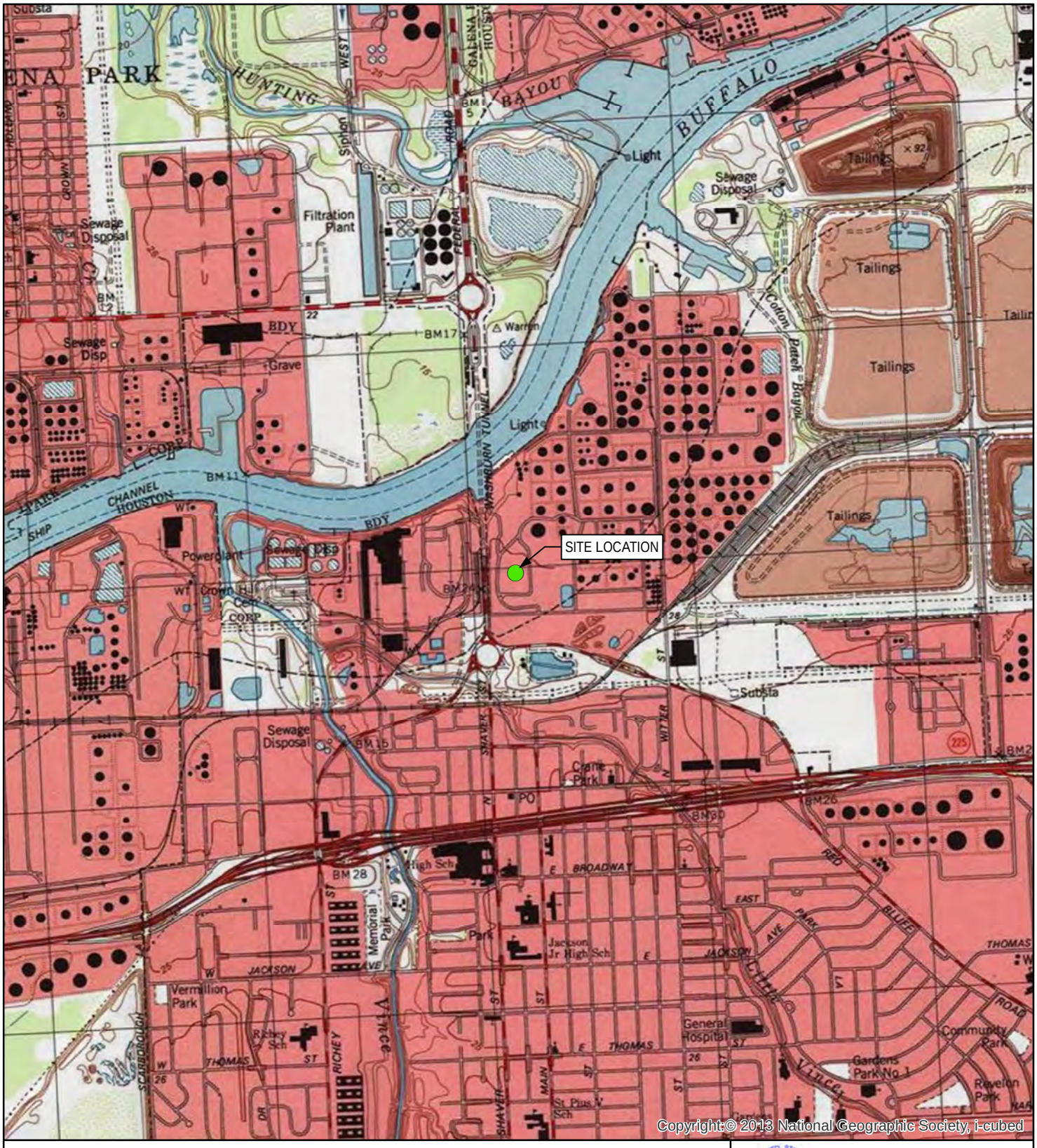
TDD NO: 1/WESTON-042-16-017
NRC NO: 1142043

SOURCE: 2010 Microsoft Corporation and its data suppliers

FILE: L:\20406_START3_R6\Pasadena_Refining_Systems_Fire\GIS\Attachment A Site Location Map.mxd 8:24:13 AM 4/7/2016 bondp

ATTACHMENT B

SITE AREA MAP



0 2,000 4,000

Feet

LEGEND

Site Location

N

US EPA REGION 6

ATTACHMENT B
SITE AREA MAP
PASADENA REFINING SYSTEMS FIRE
111 RED BLUFF RD
PASADENA, HARRIS COUNTY, TEXAS

DATE	PROJECT NO	SCALE
APR 2016	20406.012.001.0993.01	AS SHOWN

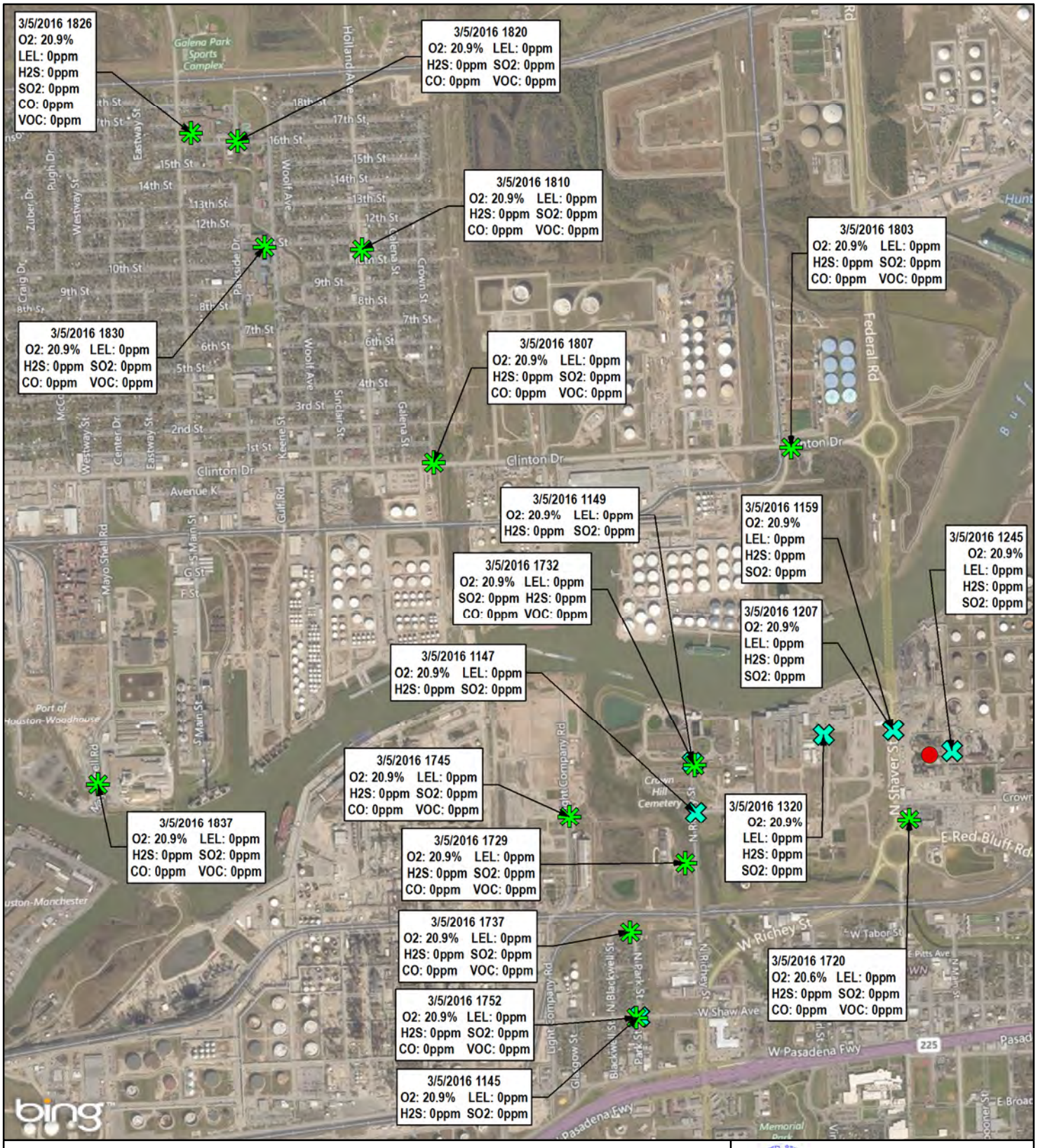
TDD NO: 1/WESTON-042-16-017
NRC NO: 1142043

SOURCE: 2013 National Geographic Society, i-cubed

FILE: L:\20406_START3_R6\Pasadena_Refining_Systems_Fire\GIS\Attachment B Site Area Map.mxd 8:23:57 AM 4/7/2016 bondp

ATTACHMENT C

AIR MONITORING LOCATIONS MAP



0 2,000 4,000

Feet

LEGEND

Site Location

Air Monitoring Locations

EPA Monitoring Location

PRSI Monitoring Location

N

TDD NO: 1/WESTON-042-16-017
NRC NO: 1142043

SOURCE: Imagery - 2010 Microsoft Corporation and its data suppliers
Air Monitoring Data collected by EPA Team and Pasadena Refining Systems Inc. (PRSI)

US EPA REGION 6

ATTACHMENT C
AIR MONITORING LOCATIONS MAP
PASADENA REFINING SYSTEMS FIRE
111 RED BLUFF RD
PASADENA, HARRIS COUNTY, TEXAS

DATE	PROJECT NO	SCALE
APR 2016	20406.012.001.0993.01	AS SHOWN

FILE: L:\20406_START3_R6\Pasadena_Refining_Systems_Fire\GIS\Attachment C Air Monitoring Location Map.mxd 8:23:42 AM 4/7/2016 bondp

ATTACHMENT D

AIR MONITORING RESULTS

Attachment D
Air Monitoring Results
Pasadena Refining Systems Fire (aka PRSI Fire)
Pasadena, Harris County, Texas

Date	Time	Data Source	Lat	Long	H2S (ppm) Low Alarm - 10 High Alarm - 20	SO2 (ppm) Low Alarm - 2 High Alarm - 10	CO (ppm) Low Alarm - 5000 High Alarm - 5000	VOC (ppm) Low Alarm - 50 High Alarm - 100	LEL (%) Low Alarm - 10 High Alarm - 20	OXY (%) Low Alarm - 19.5 High Alarm - 23.5
3/5/2016	1145	PRSI	29.712502	-95.2226	0	0	NA	NA	0	20.9
3/5/2016	1147	PRSI	29.71975	-95.220005	0	0	NA	NA	0	20.9
3/5/2016	1149	PRSI	29.721515	-95.220082	0	0	NA	NA	0	20.9
3/5/2016	1159	PRSI	29.722464	-95.211823	0	0	NA	NA	0	20.9
3/5/2016	1207	PRSI	29.722464	-95.211823	0	0	NA	NA	0	20.9
3/5/2016	1245	PRSI	29.721643	-95.209432	0	0	NA	NA	0	20.9
3/5/2016	1320	PRSI	29.722363	-95.214668	0	0	NA	NA	0	20.9
3/5/2016	1720	EPA Team	29.71925	-95.21128	0	0	0	0	0	20.9
3/5/2016	1729	EPA Team	29.71793	-95.2205	0	0	0	0	0	20.9
3/5/2016	1732	EPA Team	29.72143	-95.21999	0	0	0	0	0	20.9
3/5/2016	1737	EPA Team	29.71553	-95.22285	0	0	0	0	0	20.9
3/5/2016	1745	EPA Team	29.71975	-95.22517	0	0	0	0	0	20.9
3/5/2016	1752	EPA Team	29.71248	-95.2227	0	0	0	0	0	20.9
3/5/2016	1803	EPA Team	29.73266	-95.21561	0	0	0	0	0	20.9
3/5/2016	1807	EPA Team	29.73255	-95.23026	0	0	0	0	0	20.9
3/5/2016	1810	EPA Team	29.74023	-95.23292	0	0	0	0	0	20.9
3/5/2016	1820	EPA Team	29.74423	-95.23786	0	0	0	0	0	20.9
3/5/2016	1826	EPA Team	29.74457	-95.23976	0	0	0	0	0	20.9
3/5/2016	1830	EPA Team	29.74042	-95.23691	0	0	0	0	0	20.9
3/5/2016	1837	EPA Team	29.72145	-95.24442	0	0	0	0	0	20.9

EPA United States Environmental Protection Agency

About Acute Exposure Guideline Levels (AEGLs)

On this page:

Overview

Acute Exposure Level Guidelines (AEGLs) are used by emergency planners and responders worldwide as guidance in dealing with rare, usually accidental, releases of chemicals into the air. AEGLS are expressed as specific concentrations of airborne chemicals at which health effects may occur. They are designed to protect the elderly and children, and other individuals who may be susceptible.

AEGLs assigned 1, 2 or 3 according to severity of effects

AEGLs are calculated for five relatively short exposure periods – 10 minutes, 30 minutes, 1 hour, 4 hours, and 8 hours – as differentiated from air standards based on longer or repeated exposures. AEGL "levels" are dictated by the severity of the toxic effects caused by the exposure, with Level 1 being the least and Level 3 being the most severe.

All levels are expressed as parts per million or milligrams per cubic meter (ppm or mg/m^3) of a substance above which it is predicted that the general population could experience, including susceptible individuals:

Level 1

- Notable discomfort, irritation, or certain asymptomatic non-sensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.

Level 2

- Irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.

Level 3

- Life-threatening health effects or death.

Below AEGL Level 1

Airborne concentrations below the AEGL-1 represent exposure levels that could produce mild and progressively increasing but transient and non-disabling odor, taste, and sensory irritation or certain asymptomatic, non-sensory effects. With increasing airborne concentrations above each AEGL, there is a progressive increase in the likelihood of occurrence and the severity of effects described for each corresponding AEGL.

AEGL values represent threshold levels for the general public. As mentioned, that includes susceptible subpopulations, such as infants, children, the elderly, persons with asthma, and those with other illnesses. However, it is recognized that individuals, subject to unique or idiosyncratic responses, could experience the effects described at concentrations below the corresponding AEGL.

AEGLs are developed under formal guidance

In 2001, the National Academies published procedural guidance or "Standing Operating Procedures" to make development of AEGLs systematic, consistent, documented and transparent to the public.

Read the Standing Operating Procedures (SOP) of the National Advisory Committee on Acute Exposure Guideline Levels for Hazardous Substances

Important information for users of AEGLs

Users of the AEGLs should first determine if there are legally enforceable standards that apply to the situation. Other organizations may also have recommended levels of exposure that more appropriately apply to the scenarios under evaluation.

There may be situations in which it is desirable to use AEGLs values for other exposure scenarios. To determine if an AEGL applies to a particular situation, consult the chemical-specific AEGL technical support document that contains a comprehensive review of all identified acute toxicology data on the subject chemical and the basis for the development of the AEGL values.

Find chemical-specific AEGL technical support documents.

Last updated on October 5, 2015

Hydrogen sulfide Results - AEGL Program

Hydrogen sulfide 7783-06-4 (Final)

	10 min	30 min	60 min	4 hr	8 hr
ppm					
AEGL 1	0.75	0.60	0.51	0.36	0.33
AEGL 2	41	32	27	20	17
AEGL 3	76	59	50	37	31

* Level of Odor Awareness = 0.01 ppm

You will need Adobe Reader to view some of the files on this page. See EPA's About PDF page to learn more.

- Hydrogen sulfide AEGL Technical Support Document (PDF) (70 pp, 493 K)

Last updated on October 1, 2015

Sulfur Dioxide Results - AEGL Program

Sulfur Dioxide 7446-09-5 (Final)

	10 min	30 min	60 min	4 hr	8 hr
ppm					
AEGL 1	0.20	0.20	0.20	0.20	0.20
AEGL 2	0.75	0.75	0.75	0.75	0.75
AEGL 3	30	30	30	19	9.6

You will need Adobe Reader to view some of the files on this page. See EPA's About PDF page to learn more.

- Sulfurdioxide AEGL Technical Support Document (PDF) (79 pp, 622 K)

Last updated on October 1, 2015

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	Overview
Direction:	
Photo Name:	Smoke2.jpg
Date and Time:	Apr 15 2016 10:07AM
Latitude:	
Longitude:	
Photographer:	Unknown
Witness:	Unknown
Caption:	Smoke Plume and fire supression activities

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	Overview
Direction:	
Photo Name:	pasadena-explosion-1.jpg
Date and Time:	Mar 5 2016 12:00AM
Latitude:	
Longitude:	
Photographer:	Unknown
Witness:	Unknown
Caption:	Aerial Overview of fire suppression

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	
Direction:	
Photo Name:	IMG_6304.JPG
Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.719250
Longitude:	-95.211280
Photographer:	11458
Witness:	TEDD
Caption:	Damaged stack (third stack from the left, black top)

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	
Direction:	
Photo Name:	IMG_6306.JPG
Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.719250
Longitude:	-95.211280
Photographer:	11458
Witness:	TEDD
Caption:	Damaged stack (center)

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	
Direction:	
Photo Name:	IMG_6305.JPG
Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.719250
Longitude:	-95.211280
Photographer:	11458
Witness:	TEDD
Caption:	Damaged stack (to the left of tallest white stack)

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	
Direction:	
Photo Name:	P5050202.JPG
Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.719750
Longitude:	-95.225170
Photographer:	11458
Witness:	TEDD
Caption:	Air monitoring reading at industrial plants NW of site

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Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	
Direction:	
Photo Name:	P5050204.JPG
Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.744570
Longitude:	-95.239760
Photographer:	11458
Witness:	TEDD
Caption:	

Air monitoring reading taken at MacArthur Elementary School, Galena Park

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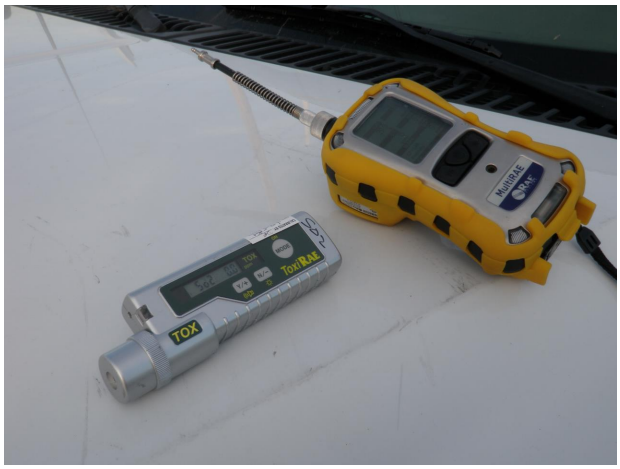

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Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.715530
Longitude:	-95.222850
Photographer:	11458
Witness:	TEDD
Caption:	Air monitoring readings

Incident Name:	PRSI Fire
Event Name:	PRSI Fire
Photo Type:	
Direction:	
Photo Name:	P5050203.JPG
Date and Time:	Mar 5 2016 12:00AM
Latitude:	29.732660
Longitude:	-95.215610
Photographer:	11458
Witness:	TEDD
Caption:	Air monitoring at park

ATTACHMENT F

SITE LOGBOOK

"Rite in the Rain"®

ALL-WEATHER

JOURNAL

No. 391

PRSI Fire

WO# 20406.012.001.0993.01

TDD# 1/Weston-042-16-017

NRC# 1142043

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Name Patrick Bond - START 3
Daniel Tighe - START 3
Address 111 Red Bluff Rd
Pasadena, Harris County, TX
Phone
Project PRSI Fire
WO# 20406.012.001.0993.01
TDD# 1/weston-042-16-017

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PAGE	REFERENCE	DATE
	Site:	
	Pasadena Refining System, Inc	
	111 Red Bluff Rd	
	Pasadena, TX 77506	

Response - Pasadena Explosion 3.5.16

1430 START - Tighe arrives at the warehouse and begins loading equipment.

1515 START Bond arrives at warehouse.

1530 START Team leaves warehouse to 111 Redbluff Road, Pasadena, Tx.

1546 Arrive on site.

1600 START meets with Incident Commander Mark Boulinger and receives a briefing on current conditions. Fire is primarily out. A 4-foot flame remains. Initial report is that a flash caused a shock wave that lit the hydrogen and deisel in the pipes. Explosion occured at approx. 1015.

1650 START departs EOC to begin air monitoring to the south of the site.

1720 PRSI parking lot - 29.71925, -95.21128; OXY - 20.6, LEL - 0.0 CO - 0.0, H_2S - 0.0 VOC 0.0, SO_2 - 0.0.

1729 Reading at 29.71743, -95.22050; OXY 20.9 LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0, SO_2 0.0

1732 Reading at 29.72143, -95.21999; OXY 20.9 LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0 SO_2 0.0

1737 Reading at N. Park & W. Belmont Streets:

PRSI Pasadena Explosion 3.5.16

29.71553, -95.22285; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0, SO_2 - 0.0.

1745 Reading at Light Company Rd & Light Company Service Rd: 29.71975, -95.22517; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0, SO_2 - 0.0

1752 Reading at Park St & W. Shaw Ave; 29.71248, -95.22270; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0, SO_2 - 0.0

1754 Changing Multi RAE from JK Inc to 23797. Bump test Passed.

1803 Reading at 29.73266, -95.21561; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S 0.0, VOC - 0.0, SO_2 - 0.0.

1807 Reading at Crown St & Clinton Drive; 29.73255, -95.23026; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0, SO_2 0.0

1810 Reading at Holland Ave & Eleventh St: 29.74023, -95.23242; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S - 0.0, VOC - 0.0, SO_2 0.0

1820 Reading at City of Galena Park Swimming Pool: 29.74423, -95.23786; OXY - 20.9, LEL - 0.0, CO - 0.0 H_2S - 0.0, VOC - 0.0, SO_2 - 0.0

1826 Reading at MacArthur Elementary: 29.74457, -95.23976; OXY - 20.9, LEL - 0.0, CO - 0.0, H_2S - 0.0

PRSI Pasadena Explosion 3.5.16

VOC -0.0, SO_2 0.0

1830 Reading at Galena Park High school: 29.74042, -95.23691: OXY-20.9, LEL-0.0, CO-0.0, H_2S-0.0, VOC-0.0, SO_2-0.0

1837 Reading at Watco #7 Terminal + Port: 29.72145, -95.24442: OXY-20.9, LEL-0.0, CO-0.0, H_2S-0.0, VOC-0.0, SO_2-0.0

1844 Arrive at site.

1850 Begin POLRep documentation.

1930 Complete first draft of polrep.

2000 Briefing with OSC Enders and PRSI Incident Commander.

2140 Complete briefing.

2143 Stand down of unified command.

2200 START demobizes and leaves for warehouse.

2220 START arrives at the warehouse and returns equipment.

2240 START completes demob and end of log day.

3.5.16

PRSI Fire 3.5.16

Guadalupe Quiroz
REGION 12 - HOUSTON
Field Operations Division
Office of Compliance and Enforcements
ER Work leader
Region 12 ■ Houston
guadalupe.quiroz@tceq.texas.gov
Texas Commission on Environmental Quality
5425 Polk Street, Suite H, Houston, TX 77023-1423
Office: 713/767-3500 713-767-3608
Fax: 713/767-3534 713-767-3799(Fax)
http://tceq.state.tx.us
gquiroz@tceq.state.tx.us
printed on recycled paper

Pasadena Refining System, Inc.
Mark Berlinger
Director of HSSE
111 Red Bluff Road
Pasadena, Texas 77506
Tel: 713.920.3924
Cell: 281.832.0740
Email: mberlinger@pasadenarefining.com

END OF

LOGBOOK

3/5/16

5/3/16

Late Entry: During the initial briefings from PRSI representatives at the response, they informed that they estimated the possibility of 800 lbs of SO_2 ~~were~~ PB could have been released in the event. Upon speaking with TCEQ Guadalupe Quiroz, ~~PB~~ on 3 May 2016, this report was confirmed ~~PB~~

END OF

LOGBOOK

5/3/16

ATTACHMENT G

NRC REPORT NO. 1142043

Submit Action Report | Spill Summary Report

NATIONAL RESPONSE CENTER 1-800-424-8802
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
Information released to a third party shall comply with any
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1142043

INCIDENT DESCRIPTION
**** THIS IS A POTENTIAL RELEASE ****
*Report taken by: MST2 JOSHUA DIAZ at 13:58 on 05-MAR-16
Incident Type: FIXED
Incident Cause: EXPLOSION
Affected Area:
Incident occurred on 05-MAR-16 at 10:30 local incident time.
Affected Medium: AIR ATMOSPHERE

REPORTING PARTY

Name: DUTY OFFICER
Organization: NATIONAL RESPONSE CENTER
Address: 2703 MARTIN LUTHER KING JR AVE, SE
WASHINGTON, DC 20593

PRIMARY Phone: (800)4248802
Type of Organization: FEDERAL GOVERNMENT

SUSPECTED RESPONSIBLE PARTY

Name: UNKNOWN
Organization: PASADENA REFINING SYSTEM, INC
Address: 111 RED BLUFF RD
PASADENA, TX 77506
Phone: (713)4722461
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

111 RED BLUFF RD County: HARRIS

City: PASADENA State: TX Zip: 77506

POTENTIALLY RELEASED MATERIAL(S)

CHRIS Code: UNK Official Material Name: UNKNOWN MATERIAL
Also Known As:
Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

/// THIS REPORT WAS GENERATED VIA MESSAGE TRAFFIC ///

THERE IS A REPORTED EXPLOSION AT A FACILITY, RESULTING IN THE CLOSURE OF THE HOUSTON SHIP CHANNEL. THERE WAS ONE INJURED PERSON WHO HAS BEEN TRANSPORTED TO THE HOSPITAL. NO RELEASE HAS BEEN REPORTED AT THIS TIME. NO CHEMICALS WERE DIRECTLY INVOLVED AND THERE IS NO CONCERN OF TOXIC VAPORS.

INCIDENT DETAILS

Package: NO
Building ID:
Type of Fixed Object: REFINERY
Power Generating Facility: UNKNOWN
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN

IMPACT

Fire Involved: UNKNOWN Fire Extinguished: UNKNOWN

INJURIES:	YES 1	Hospitalized:	1	Empl/Crew:		Passenger:	
FATALITIES:	UNKNOWN	Empl/Crew:		Passenger:		Occupant:	
EVACUATIONS:	UNKNOWN	Who Evacuated:		Radius/Area:			

Damages: UNKNOWN

Closure Type	Description of Closure	Hours Closed	Direction of Closure
Air: N			
Road:			
Waterway: Y	HOUSTON SHIP CHANNEL		
Track: N			

Major Artery: N

Passengers Transferred: NO
Environmental Impact: UNKNOWN

Media Interest: HIGH Community Impact due to Material:

REMEDIAL ACTIONS

USCG IMT ARE EN ROUTE TO THE SCENE TO COORDINATE COMMUNICATIONS WITH THE COTP.

Release Secured: UNKNOWN
Release Rate:
Estimated Release Duration:

WEATHER

Weather: UNKNOWN, □F

ADDITIONAL AGENCIES NOTIFIED

Federal: USCG
State/Local: FD
State/Local On Scene: FD
State Agency Number:

NOTIFICATIONS BY NRC

CENTERS FOR DISEASE CONTROL (GRASP)
05-MAR-16 14:08 (770)4887100
DHS NOC (NOC)
05-MAR-16 14:08 (202)2828114
CGIS HOUSTON (SPECIAL AGENT CGIS)
05-MAR-16 14:08 (409)6827808
CHEM SAFETY AND HAZARD INVEST BOARD (MAIN OFFICE)
(202)
CHEM SAFETY AND HAZARD INVEST BOARD (WEEKEND)
(202)6312440
CHEM SAFETY AND HAZARD INVEST BOARD (CSB AUTOMATIC NOTIFICATIONS)
05-MAR-16 14:08 (202)3780334
DHS TEXAS FUSION CENTER (INTELLIGENCE OFFICERS)
05-MAR-16 14:08 (202)3068204
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
05-MAR-16 14:08 (202)3661863
EPA OEM (MAIN OFFICE)
05-MAR-16 14:11 (202)5643850 ABRAMS
EPA OEM (WEEKEND CONTACT)
05-MAR-16 14:12 (202)5643850 ABRAMS
U.S. EPA VI (MAIN OFFICE)
05-MAR-16 14:09 (866)3727745 BRESCIA
FBI STRATEGIC INFO OPERATIONS CNTR (MAIN OFFICE)
05-MAR-16 14:10 (202)3233300 NO VERBAL
USCG NATIONAL COMMAND CENTER (MAIN OFFICE)
05-MAR-16 14:08 (202)3722100
HOUSTON POLICE DEPARTMENT (CRIMINAL INTELLIGENCE DIVISION)
05-MAR-16 14:08 (713)3088700
HOUSTON REGIONAL INTEL SERVICE (FUSION CENTER)
05-MAR-16 14:08 (713)8844710
INFO ANALYSIS AND INFRA PROTECTION (MAIN OFFICE)
05-MAR-16 14:08
JFO-LA (COMMAND CENTER)
05-MAR-16 14:08 (225)3366513
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
05-MAR-16 14:08 (202)2829201
NATIONAL INFRASTRUCTURE COORD CTR (INFRASTRUCTURE PROTECTION)
05-MAR-16 14:08 (202)2829201
NOAA RPTS FOR TX (MAIN OFFICE)
05-MAR-16 14:08 (206)5264911
NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)
05-MAR-16 14:08
NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)
05-MAR-16 14:08 (202)2671136
NRC COMMAND DUTY OFFICER (MAIN OFFICE)
(202)2672100
NTSB PIPELINE (MAIN OFFICE)

05-MAR-16 14:08 (202)3146293
HOMELAND SEC COORDINATION CENTER (MAIN OFFICE)
05-MAR-16 14:08 (202)2828300
ORLANDO INTNL AIRPORT TSA/DHS (INCIDENT MANAGEMENT CENTER)
05-MAR-16 14:08 (407)3191748
OCCUPATIONAL SAFETY & HEALTH ADMIN (DALLAS OFFICE)
05-MAR-16 14:08 (801)9180995
PORT OF HOUSTON AUTH POLICE DEPT (POLICE DEPARTMENT)
05-MAR-16 14:08 (713)6703611
PORT OF HOUSTON AUTH POLICE DEPT (HSEES DIRECTOR)
05-MAR-16 14:08 (713)6702642
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
05-MAR-16 14:08 (202)3660568
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY WEEKENDS)
(202)3661863
SECTOR HOUSTON-GALVESTON (COMMAND CENTER)

(281)4644855
TCEQ (MAIN OFFICE)
05-MAR-16 14:08 (800)8328224
TCEQ (REGION 12)
05-MAR-16 14:08 (512)2392507
DEPT OF ENERGY STPR (STRATEGIC PETROLEUM RESERVE-EMERGENCY MGMT)
05-MAR-16 14:08 (504)7344113
TEXAS FUSION CENTER (COUNTER TERRORISM)
05-MAR-16 14:08 (866)7865972
TX GENERAL LAND OFFICE (MAIN OFFICE)
05-MAR-16 14:08 (281)4706597
TEXAS STATE OPERATIONS CENTER (COMMAND CENTER)
05-MAR-16 14:08 (512)4242208
USCG DISTRICT 8 (MAIN OFFICE)
05-MAR-16 14:08 (504)5896225
USCG DISTRICT 8 (PLANNING)
05-MAR-16 14:08 (504)6712080

ADDITIONAL INFORMATION

PASADENA FIRE DEPT IS THE ON-SCENE COMMANDER WITH THE HOUSTON HAZMAT IN SUPPORT AND CHANNEL INDUSTRIES MUTUAL AID GROUP RESPONDED TO SUPPORT THE FIREFIGHTING EFFORTS.

*** END INCIDENT REPORT # 1142043 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

Close Window

ATTACHMENT H

FINAL TCEQ STEERs REPORT

Confirm Final Report of Incident 228749 to Send to TCEQ
Regulated Entity: RN100716661 Today's date is: 03/18/2016

Incident Tracking Number:	228749	**Incident Status:**	OPEN
Submittal Type:	FINAL REPORT		
Name of Owner or Operator:	PASADENA REFINING SYSTEM INC	**Regulated Entity Number:**	RN100716661
Physical Location:	111 RED BLUFF RD		
Event/Activity Type:	EMISSIONS EVENT		
Date and Time Event Discovered or Scheduled Activity Start:	03/05/2016 @ 10:27		
Event Duration:	8 hours, 33 minutes		

Process Unit or Area Common Names
Distillate Hydrotreater Unit

Facility Common Name	**Facility Identification Number (FIN)**
Distillate Hydrotreater Unit	REFFU002

Emission Point Common Name:	**Emission Point Number:**
West Flare	FLRFNWEST

List of Air Contaminant Compounds

Description	Est. Quantity/ Opacity	Units	Emission Limit	Units	Authorization
Butane	70.70000	POUNDS	239.81000	LBS/HR	56389
Ethylene (gaseous)	2.70000	POUNDS	239.81000	LBS/HR	56389
Propane	24.0000	POUNDS	239.81000	LBS/HR	56389
Sulfur dioxide	106.20000	POUNDS	11.86000	LBS/HR	56389
Nitrogen Oxides	14.40000	POUNDS	31.68000	LBS/HR	56389
Carbon Monoxide	104.30000	POUNDS	161.39000	LBS/HR	56389
Butene	12.0	POUNDS	239.81	LBS/HR	56389
C5+ (not including benzene)	139.50	POUNDS	239.81	LBS/HR	56389

Emission Point Common Name:	**Emission Point Number:**
Distillate Hydrotreater Unit	FUREF002

List of Air Contaminant Compounds

Description	Est. Quantity/ Opacity	Units	Emission Limit	Units	Authorization
Hydrogen Sulfide	1.10000	POUNDS	0.01000	LBS/HR	56389
Sulfur dioxide	187.0000	POUNDS	0		No specific emissions authorizations for this facility
Propane	215.10000	POUNDS	5.71000	LBS/HR	56389
Propylene (Propene)	2.10000	POUNDS	5.71000	LBS/HR	56389
Butane, N-	134.80000	POUNDS	5.71000	LBS/HR	56389
Butene	4.90000	POUNDS	5.71000	LBS/HR	56389
Pentane, N-	70.80000	POUNDS	5.71000	LBS/HR	56389

Hexane	1849.0000	POUNDS	5.71000	LBS/HR	56389
Carbon Monoxide	1085.80	POUNDS	0		No specific emissions authorizations for this facility
Nitrogen Oxides	36.70	POUNDS	0		No specific emissions authorizations for this facility
Particulate Matter	711.0	POUNDS	0		No specific emissions authorizations for this facility
Benzene	0.8	POUNDS	5.71	LBS/HR	56389
Toluene	10.9	POUNDS	5.71	LBS/HR	56389
Ethylbenzene	6.2	POUNDS	5.71	LBS/HR	56389
Xylene	38.9	POUNDS	5.71	LBS/HR	56389
Ethylene (gaseous)	2.4	POUNDS	5.71	LBS/HR	56389
Pentenes	3.1	POUNDS	5.71	LBS/HR	56389

Cause of Emission Event or Excess Opacity Event, or Reason for Scheduled Activity:

A pipe failure at the Distillate Hydrotreater Unit (DHT) resulted in release of diesel range hydrocarbons and hydrogen, with a resultant fire.

Actions Taken, or Being Taken, to Minimize Emissions And/or Correct the Situation:

DHT and adjacent SZorb Units were safely shutdown and isolated. Emergency responders were able to contain and extinguish the fire.

Basis Used to Determine Quantities and Any Additional Information Necessary to Evaluate the Event:

Emission calculations were based on best engineering estimates that included the feed rate to the DHT unit at the time of the incident and hydrocarbons that were contained in the process equipment and consumed in the fire. The emissions estimate also includes West Flare emissions during the period of the incident to account for any process flow that was diverted to the flare. The flare emissions were based on flow rate and composition analyzers for the West Flare.

Submission date and time: 03/18/2016 01:18:10 PM
Submission STEERS Version: 6.00
Submission Confirmation Number: 129163
Submission Data Hash Code: 4CBEC8FEB240B445F6B6934E05F732CA1353DD2FA4AF7B922FE8AA9ED83FA7A5
STEERS AEME Incident Id: 135916

ATTACHMENT I

POLLUTION REPORT (POLREP)

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
PRSI Fire - Removal Polrep
Initial and Final Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VI

Subject:	**POLREP #1** **First and Final** **PRSI Fire** **Pasadena, TX**
To:	Anthony Buck, TCEQ Ronnie Crossland, USEPA Reggie Cheatham, USEPA
From:	Jhana Enders, FOSC
Date:	3/5/2016
Reporting Period:	3/5/2016 - 3/6/2016

1. Introduction

1.1 Background

Site Number:		**Contract Number:**	
D.O. Number:		**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	Emergency
Response Lead:	PRP	**Incident Category:**	Removal Assessment
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	3/5/2016	**Start Date:**	3/5/2016
Demob Date:	3/6/2016	**Completion Date:**	
CERCLIS ID:		**RCRIS ID:**	
ERNS No.:		**State Notification:**	TCEQ Notified
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category
CERCLA Response

1.1.2 Site Description
Pasadena Refining System, Inc. (PRSI) refines and markets petroleum products, including petrochemical feedstock with a crude oil capacity of over 100,000 barrels per day.

1.1.2.1 Location
Pasadena Refining System, Inc., 111 Red Bluff Road, Pasadena, TX 77506.

1.1.2.2 Description of Threat
A compressor in the Hydrogen Desulfurization (HDS) unit tripped and when restarted, resulted in an

explosion and fire. The fire created a large black plume of smoke that traveled offsite. The smoke from the fire posed a potential health threat to nearby communities. One employee was injured and sent to Bayshore Hospital with burns on the back of the head, shoulder and hands. The employee was released from the hospital later the same day. There were no community evacuations or shelter in place. No waterways were affected.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

On 03/05/2015 PRSI was changing out hydrogen sources in the HDS Unit when a flash and percussion wave damaged nearby pipelines carrying diesel fuel. The hydrogen and diesel fuel caught fire at approximately 1015, resulting in an explosion and release of Sulfur Dioxide (SO2) to the atmosphere. The HDS Unit was shut down and depressurized following emergency procedures. Additional units adjacent to the HDS were also shut down. The burning diesel fuel caused a large black plume of smoke which traveled offsite. Due to an estimated SO2 Reportable Quantity (RQ) of 800 pounds the National Response Center (NRC) was notified (#1142043). The first “e-notify” was sent to agencies, nearby industries, and the community at 1058.

PRSI safety conducted air monitoring offsite, using a MX6 Monitor (H2S, SO2, O2, LEL). PRSI and Harris County Pollution Control conducted mobile air monitoring within the vicinity of the plant as well as offsite and reported no detections above background.

Channel Industries Mutual Aid (CIMA) responded at the request of the facility with multiple firefighting units. The Washburn Tunnel and Red Bluff Road were shut down by authorities to accommodate the staging of fire suppression equipment. The US Coast Guard (USCG) closed the Houston Ship Channel as a precautionary measure until teams could investigate the scene for possible chemical release to the air or impact on waterways.

A Unified Command (UC) was established with the city of Pasadena as the lead. Agencies onsite included; City of Pasadena, City of Houston Fire Department, Harris County Emergency Management/Pollution Control/Arson Investigation, Houston Emergency Management, Harris County Hazmat, USCG, TCEQ, CIMA.

The fire was extinguished at 1902 and the ‘all clear’ was given by the UC at 1921. Runoff water from the fire was contained and sent to a wastewater treatment plant.

2.1.2 Response Actions to Date

On 03/5/2016, the EPA Phone Duty Officer (PDO), Nicolas Brescia, dispatched OSC Enders and the EPA START contractor to assess site conditions, document site activities and provide technical assistance as needed. The EPA team arrived on scene and received a briefing from the Incident Commander(IC) Mark Berlinger, PRSI Environmental Health Safety Director. A meeting was held with members of the PRSI onsite incident command to obtain an accurate timeline of events and other information regarding the current situation.

The EPA team conducted air monitoring at 14 locations in the surrounding industrial and residential areas for oxygen (O2), lower explosive limit (LEL), carbon monoxide (CO), hydrogen sulfide (H2S), volatile organic compounds (VOC), and sulfur dioxide (SO2) with no detections above background.

EPA met with PRSI and TCEQ at the end of the day to go over the timeline of events and actions moving forward. TCEQ will continue oversight during the damage assessment and restoration.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

2.1.4 Progress Metrics

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*
Air Emissions		Estimated 800 pounds of SO2			

2.2 Planning Section

2.2.1 Anticipated Activities
None at this time.

2.2.1.1 Planned Response Activities
No further action by EPA

2.2.1.2 Next Steps
TCEQ will continue oversight during the damage assessment and restoration

2.2.2 Issues
One PRSI employee was taken to a local hospital to be treated for burns from the initial explosion

2.3 Logistics Section
No information available at this time.

2.4 Finance Section
No information available at this time.

2.5 Other Command Staff
No information available at this time.

3. Participating Entities
No information available at this time.

4. Personnel On Site
No information available at this time.

5. Definition of Terms
No information available at this time.

6. Additional sources of information
No information available at this time.

7. Situational Reference Materials
No information available at this time.

ATTACHMENT J

TDD NO. 1/WESTON-042-16-017

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Vendor : WESTON SOLUTIONS, INC.

TDD # : 1/WESTON-042-16-017
Amendment # :
Contract # : EP-W-06-042

TDD Title : PRSI Fire
Purpose : TDD INITIATION

Verbal Date : 03/05/2016
Start Date : 03/05/2016
Completion Date : 06/30/2016
Effective Date : 03/05/2016

Priority : HIGH
Overtime Authorized : Yes
Invoice Unit :

SSID : A6MV
Project/Site Name : PRSI Fire
Project Address : 111 Red Bluff Road
County : Harris
City : Pasadena
State : TX
Zip Code : 77506

Work Area : Response / Removal
Work Area Code : RS
Activity : PRP Emergency Removal w/o Enforceable Instrument)
Activity Code : PJ
Operable Unit :
Emergency Code :
FPN :
Performance Based : No

Authorized TDD Ceiling :

	Amount	LOE (Hours)
Previous Action(s) :	$0.00	0.00
This Action :	$20,000.00	0.00
New Total :	$20,000.00	0.00

Specific Elements :

Description of Work :

See Schedule

Region Specific :

CERCLIS: :

Misc 2 :

Accounting and Appropriation Information:

SFO:

Line	Budget / FY	Approp.	Budget Org	Program Element	Object Class	Site Project	Cost Org	DCN Line-ID	Funding Category	TDD Amount
1	15	T	6A00	303DC6	2505	06WQWQ00		156ARSC017-001	REMOVAL SUPPORT	$20,000.00

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Vendor : WESTON SOLUTIONS, INC.

TDD # : 1/WESTON-042-16-017
Amendment # :
Contract # : EP-W-06-042

Project Officer : Will LaBombard *(Signature)* *(Date)*	**Branch Mail Code:**	
	Phone Number :	214-665-7199
	Fax Number :	
Contracting Officer Representative Jhana Enders *(Signature)* *(Date)*	**Branch Mail Code :**	
	Phone Number :	214-665-2270
	Fax Number :	
Contract Specialist: Michael J. Pheeny *(Signature)* *(Date)*	**Branch Mail Code :**	
	Phone Number :	214-665-2798
	Fax Number :	
Contracting Officer : Michael J. Pheeny Electronically Signed by Michael J. Pheeny 03/28/2016 *(Signature)* *(Date)*	**Branch Mail Code :**	
	Phone Number :	214-665-2798
	Fax Number :	
Other Agency Official *(Signature)* *(Date)*	**Branch Mail Code :**	
	Phone Number :	
	Fax Number :	

Description of Work:TDD Ceiling: $20,000. Tier 1 Response to a reported release of SO2 and diesel oil in Pasadena, Tx. NRC#1142043. Assess site conditions, provide air monitoring and/or other technical assistance as needed. Deliverables to include the following in excel spreadsheet format; Daily START costs to include personnel/date/#hours worked/brief description of activities/labor category/rate, air monitoring data to include date/time/GPS coordinates/detections/standards. Other deliverables to include draft PolReps, photo/logbook documentation, final AOC and other as specified by the OSC. Coordinate with OSC Enders at 214.789.9654. RP Lead site.

Technical Direction Document

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Vendor : WESTON SOLUTIONS, INC.

TDD # : 1/WESTON-042-16-017
Amendment # : 001
Contract # : EP-W-06-042

TDD Title : PRSI Fire
Purpose : EXTEND POP

Verbal Date : 03/05/2016
Start Date : 03/05/2016
Completion Date : 12/21/2016
Effective Date : 03/05/2016

Priority : HIGH
Overtime Authorized : Yes
Invoice Unit :

SSID : A6MV
Project/Site Name : PRSI Fire
Project Address : 111 Red Bluff Road
County : Harris
City : Pasadena
State : TX
Zip Code : 77506

Work Area : Response / Removal
Work Area Code : RS
Activity : PRP Emergency Removal w/o Enforceable Instrument)
Activity Code : PJ
Operable Unit :
Emergency Code :
FPN :
Performance Based : No

Authorized TDD Ceiling :

	Amount	LOE (Hours)
Previous Action(s) :	$20,000.00	0.00
This Action :	$0.00	0.00
New Total :	$20,000.00	0.00

Specific Elements :

Description of Work :

See Schedule

Region Specific :

CERCLIS: :

Misc 2 :

Accounting and Appropriation Information:

SFO:

Line	Budget / FY	Approp.	Budget Org	Program Element	Object Class	Site Project	Cost Org	DCN Line-ID	Funding Category	TDD Amount

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Vendor : WESTON SOLUTIONS, INC.

TDD # : 1/WESTON-042-16-017
Amendment # : 001
Contract # : EP-W-06-042

Project Officer : Will LaBombard (Signature) (Date)	**Branch Mail Code:**	
	Phone Number :	214-665-7199
	Fax Number :	
Contracting Officer Representative Jhana Enders (Signature) (Date)	**Branch Mail Code :**	
	Phone Number :	214-665-2270
	Fax Number :	
Contract Specialist: Michael J. Pheeny (Signature) (Date)	**Branch Mail Code :**	
	Phone Number :	214-665-2798
	Fax Number :	
Contracting Officer : Michael J. Pheeny Electronically Signed by Michael J. Pheeny 05/24/2016 (Signature) (Date)	**Branch Mail Code :**	
	Phone Number :	214-665-2798
	Fax Number :	
Other Agency Official (Signature) (Date)	**Branch Mail Code :**	
	Phone Number :	
	Fax Number :	

Description of Work:
Amendment 001 - Extend the POP to 12/21/2016 so that work can continue. No change in SOW or funding.
Base ORIG - TDD Ceiling: $20,000. Tier 1 Response to a reported release of SO2 and diesel oil in Pasadena, Tx. NRC#1142043. Assess site conditions, provide air monitoring and/or other technical assistance as needed. Deliverables to include the following in excel spreadsheet format; Daily START costs to include personnel/date/#hours worked/brief description of activities/labor category/rate, air monitoring data to include date/time/GPS coordinates/detections/standards. Other deliverables to include draft PolReps, photo/logbook documentation, final AOC and other as specified by the OSC. Coordinate with OSC Enders at 214.789.9654. RP Lead site.